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Direct Methanol Fuel Cells - Antonio Salvatore Aricò
2010

This book deals with an analysis of materials issues, status of technologies and potential applications of direct methanol fuel cells. The principle of operation of direct methanol fuel cells and the status of knowledge in the basic research areas are presented. The technology of direct methanol fuel cells is discussed in this book with particular regard to fabrication methodologies for the manufacturing of catalysts, electrolytes membrane-electrode assemblies, stack hardware and system design.

Trapping Highly Charged Ions - John Gillaspay 2001

This book provides an elementary introduction to the field of trapping highly charged ions. The first group of chapters is intended to describe the various sorts of highly charged ion traps: EBIT, EBIS, ECR, Storage Rings and various speciality traps. The authors focus on their own ion trap facilities in order to teach by example. The chapters range in scope from comprehensive reviews to brief introductions. The second group of chapters is intended to give a flavour of the various sorts of scientific research which are presently being carried out with traps for highly charged ions. These chapters

not only inform, but also stimulate newcomers to think up fresh ideas. The articles in this second group generally fall into one of three broad categories: atomic structure experiments, ion-surface interactions and precision mass spectrometry. The third group of chapters is intended to deal with theory and spectroscopic analysis. It provides some of the background material necessary to make sense of observed phenomenology, to allow detailed explanation of experimental data, and to sensibly plan further experimentation. An appendix provides a complete keyword-annotated bibliography of papers.

Competing for the Future - Henry Kressel 2007-04-16

Everybody knows that digital technology has revolutionised our economy and our lifestyles. But how many of us really understand the drivers behind the technology - the significance of going digital; the miniaturization of circuit boards; the role of venture capital in financing the revolution; the importance of research and development? How many of us understand what it takes to make money from innovative technologies? Should we worry about manufacturing going offshore? What is the role of India and China in the digital economy? Drawing on a lifetime's experience in the industry, as

an engineer, a senior manager and as a partner in a venture capital firm, Henry Kressel offers an expert personalized answer to all these questions. He explains how the technology works, why it matters, how it is financed and what the key lessons are for public policy. *Frontiers in Materials Modelling and Design* - Vijay Kumar 2012-12-06

It is about fifteen years since we started hearing about Computational Materials Science and Materials Modelling and Design. Fifteen years is a long time and all of us realise that the use of computational methods in the design of materials has not been rapid enough. We also know the reasons for this. Materials properties are not dependent on a single phenomenon. The properties of materials cover a wide range from electronic, thermal, mechanical to chemical and electro-chemical. Each of these class of properties depend on specific phenomenon that takes place at different scales or levels of length from sub atomic to visible length levels. The energies controlling the phenomena also varies widely from a fraction of an electron volt to many joules. The complexity of materials are such that while models and methods for treating individual phenomenon have been perfected, incorporating them into a single programme taking into account the synergism is a formidable task. Two specific areas where the progress has been very rapid and substantive are prediction of phase stability and phase diagrams and embrittlement of steels by metalloids. The first three sections of the book contain papers which review the theoretical principles underlying materials modeling and simulations and show how they can be applied to the problems just mentioned. There is now a strong interest in designing new materials starting from nanoparticles and clusters.

The Hot Universe - Katsuji Koyama 2012-12-06

The present decade is opening new frontiers in high-energy astrophysics. After the X-ray satellites in the 1980's, including Einstein, Tenma, EXOSAT and Ginga, several satellites are, or will soon be, simultaneously in orbit offering spectacular advances in X-ray imaging

at low energies (ROSAT, Yohkoh) as well as at high energies (GRANAT), in spectroscopy with increased bandwidth (ASCA, SAX), and in timing (XTE). While these satellites allow us to study atomic radiation from hot plasmas or energetic electrons, other satellites study nuclear radiation at gamma-ray energies (CGRO) associated with radioactivity or spallation reactions. These experiments show that the whole universe is emitting radiation at high energies, hence we call it the "hot universe." The hot universe, preferentially emitting X- and gamma-rays, provides us with many surprises and much information. A symposium "The Hot Universe" was held in conjunction with the XXIIIrd General Assembly of the International Astronomical Union, at Kyoto on August 26-30 in 1997. The proceedings are organized as follows. Synthetic view of "the hot universe" is discussed in Section 1, "Plasma and Fresh Nucleosynthesis Phenomena". Timely discussions on the strategy for future missions "Future Space Program" are found in Section 2. Then the contents are divided into two major subjects: the compact objects and thin hot diffuse plasmas. Section 3 is devoted to the category of compact objects which includes white dwarfs, neutron stars, and gravitationally collapsed objects: stellar mass black holes or active galactic nuclei.

Dictionary of Acronyms and Technical Abbreviations - Jakob Vlietstra 2012-12-06

This Dictionary covers information and communication technology (ICT), including hardware and software; information networks, including the Internet and the World Wide Web; automatic control; and ICT-related computer-aided fields. The Dictionary also lists abbreviated names of relevant organizations, conferences, symposia and workshops. This reference is important for all practitioners and users in the areas mentioned above, and those who consult or write technical material. This Second Edition contains 10,000 new entries, for a total of 33,000.

Magnesium - Karl U. Kainer 2006-03-06

The need for light-weight materials, especially in the

automobile industry, created renewed interest in innovative applications of magnesium materials. This demand has resulted in increased research and development activity in companies and research institutes in order to achieve an improved property profile and better choice of alloy systems. Here, development trends and application potential in different fields like the automotive industry and communication technology are discussed in an interdisciplinary framework.

Case Studies in the Achievement of Air Superiority - Benjamin Franklin Cooling (III) 1994

Collector's Guide to Diecast Toys & Scale Models - Dana Johnson 1996

This updated second edition now includes over 575 brands, as opposed to the only 170 brands presented in the first book. Once again this full-color guide will include popular contemporary brands such as Majorette, Tomica, Hot Wheels, Matchbox, Siku, Maisto, Bburago, Johnny Lightnings, and many others featured together in detail, showing the different models and thousands of variations. This extraordinary book is arranged alphabetically by brand name with hundreds of color photographs, manufacturers, model numbers, descriptions, scales, colors, distinguishing marks, and current market values. It provides a helpful bibliography and guide to resources for finding more diecast toys on the secondary market. 1998 values.

Thomas Register of American Manufacturers - 2002

This basic source for identification of U.S. manufacturers is arranged by product in a large multi-volume set. Includes: Products & services, Company profiles and Catalog file.

Celebrating Indonesia - Gunawan Mohamad 2003

Electrocatalysis of Direct Methanol Fuel Cells - Jiujun Zhang 2009-10-26

This first book to focus on a comprehensive description on DMFC electrocatalysis draws a clear picture of the

current status of DMFC technology, especially the advances, challenges and perspectives in the field. Leading researchers from universities, government laboratories and fuel cell industries in North America, Europe and Asia share their knowledge and information on recent advances in the fundamental theories, experimental methodologies and research achievements. In order to help readers better understand the science and technology of the subject, some important and representative figures, tables, photos, and comprehensive lists of reference papers are also included, such that all the information needed on this topic may be easily located. An indispensable source for physical, catalytic, electro- and solid state chemists, as well as materials scientists and chemists in industry.

Innovation and International Corporate Growth -

Alexander Gerybadze 2010-07-17

Research and development (R&D) as well as innovation are the drivers of change and the key determinants of growth in many industry and service sectors. In spite of the financial turmoil and restructuring of the world economy after 2008, investment in R&D is expected to grow further. Innovation competence will continue to be a major success factor for internationally operating companies. The book presents a state-of-the-art account of innovation management and the role of R&D and innovation strategy for corporate growth and renewal. It follows a top-down approach starting from corporate strategy, and describes the effective integration of corporate R&D, business unit projects and operational performance improvements. The book offers portraits of leading innovators and high-performing corporations and provides a rich collection of best-practice examples.

Gas Turbines for Electric Power Generation - S. Can Gülen 2019-02-14

Everything you wanted to know about industrial gas turbines for electric power generation in one source with hard-to-find, hands-on technical information.

Asian Yearbook of International Law - B.S. Chimni

2013-03-05

Launched in 1991, The Asian Yearbook of International Law is a major refereed publication dedicated to international law issues as seen primarily from an Asian perspective, under the auspices of the Foundation for the Development of International Law in Asia (DILA). It is the first publication of its kind edited by a team of leading international law scholars from across Asia. The Yearbook provides a forum for the publication of articles in the field of international law, and other Asian international law topics, written by experts from the region and elsewhere. Its aim is twofold: to promote international law in Asia, and to provide an intellectual platform for the discussion and dissemination of Asian views and practices on contemporary international legal issues. Each volume of the Yearbook contains articles and shorter notes; a section on State practice; an overview of Asian states participation in multilateral treaties; succinct analysis of recent international legal developments in Asia; an agora section devoted to critical perspectives on international law issues; surveys of the activities of international organizations of special relevance to Asia; and book review, bibliography and documents sections. This volume offers Asian perspectives on topics including : treaty-making power in China; the crime of aggression, illegal fishing and the destruction of environment in armed conflicts.

Metal Finishing Abstracts - 1981

South African Mining, Coal, Gold & Base Minerals - 1998

The Engineering of Sport 6 - Eckehard Moritz 2010-04-26
This proceedings volume of the ISEA 2006 examines sports engineering, an interdisciplinary subject which encompasses and integrates not only sports science and engineering but also biomechanics, physiology and anatomy, and motion physics. This is the first title of its kind in the emerging field of sports technology.
The Contradictions of Austerity - Jeffrey Sommers

2014-04-24

The great financial crisis of 2008 and the ensuing global economic and financial turmoil have launched a search for "models" for recovery. The advocates of austerity present the Baltic States as countries that through discipline and sacrifice showed the way out of crisis. They have proposed the "Baltic model" of radical public sector cuts, wage reductions, labor market reforms and reductions in living standards for other troubled Eurozone countries to emulate. Yet, the reality of the Baltic "austerity fix" has been neither fully accepted by its peoples, nor is it fully a success. This book explains why and what are the real social and economic costs of the Baltic austerity model. We examine each of the Baltic States by connecting national level studies within a European and global political economy, thereby delivering comparative breadth that supersedes localized understandings of the crisis. Thus for each of the three Baltic states, individual chapters explore the different economic and social dimensions of neo-liberal post-communism and the subsequent wider global economic and financial crisis in which these newly financialized economies have found themselves especially vulnerable. The "austerity model" adopted by Baltic national governments in response to the crisis reveals the profound vulnerabilities created by their unwavering commitment to liberalized economies, not least in terms of the significant "exit" of their labor forces and consequent population loss. This book looks beyond basic financial metrics claiming a success story for the Baltic austerity model to reveal the damaging economic and social consequences, first of neo-liberal policies adopted during transition, and latterly of austerity measures based on "internal devaluation." Combined these policies undermine the possibility of longer-term recovery and even social and economic sustainability, not to mention prospects for successful integration in the now-faltering European project that has departed from its "Social Model" roots.

Exploring Innovation - David Smith 2010

Major Companies of the Arab World 1993/94 - Giselle C Bricault 2012-12-06

This book represents the seventeenth edition of the leading IMPORTANT reference work MAJOR COMPANIES OF THE ARAB WORLD. All company entries have been entered in MAJOR COMPANIES OF THE ARAB WORLD absolutely free of charge, thus ensuring a totally objective approach to the year's edition. Many new companies have also been included information given. this year. Whilst the publishers have made every effort to ensure that the information in this book was correct at the time of press, no The publishers remain confident that MAJOR COMPANIES responsibility or liability can be accepted for any errors or OF THE ARAB WORLD contains more information on the omissions, or for the consequences thereof. major industrial and commercial companies than any other work. The information in the book was submitted mostly by the ABOUT GRAHAM & TROTMAN LTD companies themselves, completely free of charge. To all those Graham & Trotman Ltd, a member of the Kluwer Academic companies, which assisted us in our research operation, we Publishers Group, is a publishing organisation specialising in express grateful thanks. To all those individuals who gave us the research and publication of business and technical help as well, we are similarly very grateful. information for industry and commerce in many parts of the world.

Lloyd's Register of Shipping - 1957

Trends and Challenges in Digital Business Innovation - Vincenzo Morabito 2014-02-04

This book describes the trends in digital innovation that are of most importance for businesses and explores the key challenges. The book is in three parts, the first of which focuses on developments in digital systems. Here, the ever-growing relevance of big data, cloud computing, and mobile services for business is discussed, and detailed consideration is given to the importance of social listening for understanding user

behavior and needs and the implications of IT consumerization. In the second part, trends in digital management are examined, with chapters devoted to work practice, digital business identity as well as branding and governance. The final part of the book presents and reviews case studies of digital innovation at the global level that provide a benchmark of best practices, with inclusion of instructive fact sheets. While the book offers academic coverage of the digital transformation of business organizations and the associated challenges, it also describes concrete, real-world issues in clear, easy-to-understand language and will serve as a toolbox for managers that can be readily consulted. The text is supported by informative illustrations and tables, and practitioners will also benefit from the reported case studies and highlighted insights and recommendations.

Predicasts F & S Index International - 1992

U.S. Manufacturers Directory - Inc Staf American Business Directo 1988-08

Smart Card Research and Advanced Applications - Begül Bilgin 2019-03-07

This book constitutes the thoroughly refereed post-conference proceedings of the 17th International Conference on Smart Card Research and Advanced Applications, CARDIS 2018, held in Montpellier, France, in November 2018. The 13 revised full papers presented in this book were carefully reviewed and selected from 28 submissions. CARDIS has provided a space for security experts from industry and academia to exchange on security of smart cards and related applications.

Diffusion of Technologies and Social Behavior - Nebojsa Nakicenovic 2013-03-14

Wee felt it before in sense; but now wee know it by science. Edward Misselden (1623) The collective effort reported in this volume is the outcome of the diffusion of the idea of diffusion as a fundamental process in society. The considerable number of disciplines represented here indicates the weight of the problem

area. The editors are to be congratulated for their initiative in drawing together present thinking at a vivid meeting, now also in print. An old timer in the business has not much to add. But maybe some things, bearing in mind that a Preface is a celebration and not a review. As always with ideas it is hard to identify those who first gave shape to the idea of diffusion. In a general sense it is probably an observation as old as human self-reflection that groups of populations exchange ideas and copy habits and implements from each other. Sometimes it has even been recommended, as a Chinese proverb suggested millenia ago, "If you want to become a good farmer, look at your neighbor" .

The Autocar - 1978

Automotive Mechatronics: Operational and Practical

Issues - B. T. Fijalkowski 2010-11-25

This book presents operational and practical issues of automotive mechatronics with special emphasis on the heterogeneous automotive vehicle systems approach, and is intended as a graduate text as well as a reference for scientists and engineers involved in the design of automotive mechatronic control systems. As the complexity of automotive vehicles increases, so does the dearth of high competence, multi-disciplined automotive scientists and engineers. This book provides a discussion into the type of mechatronic control systems found in modern vehicles and the skills required by automotive scientists and engineers working in this environment. Divided into two volumes and five parts, Automotive Mechatronics aims at improving automotive mechatronics education and emphasises the training of students' experimental hands-on abilities, stimulating and promoting experience among high education institutes and produce more automotive mechatronics and automation engineers. The main subject that are treated are: VOLUME I: RBW or XBW unibody or chassis-motion mechatronic control hypersystems; DBW AWD propulsion mechatronic control systems; BBW AWB dispulsion mechatronic control systems; VOLUME II: SBW AWS diversion mechatronic

control systems; ABW AWA suspension mechatronic control systems. This volume was developed for undergraduate and postgraduate students as well as for professionals involved in all disciplines related to the design or research and development of automotive vehicle dynamics, powertrains, brakes, steering, and shock absorbers (dampers). Basic knowledge of college mathematics, college physics, and knowledge of the functionality of automotive vehicle basic propulsion, dispulsion, conversion and suspension systems is required.

Materials Chemistry - Bradley D. Fahlman 2018-08-28

The 3rd edition of this successful textbook continues to build on the strengths that were recognized by a 2008 Textbook Excellence Award from the Text and Academic Authors Association (TAA). Materials Chemistry addresses inorganic-, organic-, and nano-based materials from a structure vs. property treatment, providing a suitable breadth and depth coverage of the rapidly evolving materials field - in a concise format. The 3rd edition offers significant updates throughout, with expanded sections on sustainability, energy storage, metal-organic frameworks, solid electrolytes, solvothermal/microwave syntheses, integrated circuits, and nanotoxicity. Most appropriate for Junior/Senior undergraduate students, as well as first-year graduate students in chemistry, physics, or engineering fields, Materials Chemistry may also serve as a valuable reference to industrial researchers. Each chapter concludes with a section that describes important materials applications, and an updated list of thought-provoking questions.

A Guide to the Preventive Conservation of Photograph Collections - Bertrand Lavédrine 2003

A resource for the photographic conservator, conservation scientist, curator, as well as professional collector, this volume synthesizes both the masses of research that has been completed to date and the international standards that have been established on the subject.

Predicasts F & S Index - 1992

International competitiveness in electronics - 1983

International Corporate Finance, + Website - Laurent L. Jacque 2014-03-24

A thorough introduction to corporate finance from a renowned professor of finance and banking As globalization redefines the field of corporate finance, international and domestic finance have become almost inseparably intertwined. It's increasingly difficult to understand what is happening in capital markets without a firm grasp of currency markets, the investment strategies of sovereign wealth funds, carry trade, and foreign exchange derivatives products. International Corporate Finance offers thorough coverage of the international monetary climate, including Islamic finance, Asian banking, and cross-border mergers and acquisitions. Additionally, the book offers keen insight on global capital markets, equity markets, and bond markets, as well as foreign exchange risk management and how to forecast exchange rates. Offers a comprehensive discussion of the current state of international corporate finance Provides simple rules and pragmatic answers to key managerial questions and issues Includes case studies and real-world decision-making situations For anyone who wants to understand how finance works in today's hyper-connected global economy, International Corporate Finance is an insightful, practical guide to this complex subject.

UHMWPE Biomaterials for Joint Implants - Jun Fu 2019-05-23

This book presents a comprehensive, state-of-the-art review of the latest progresses in UHMWPE biomaterials, which has been critical for the performance and longevity of joint implants. Oriented by clinical challenges to UHMWPE-based joint implants, it introduces the processing, crosslinking, structural manipulation, oxidation mechanism, stabilization, drug delivery, and wear, as well as clinical performance, biomechanics, and simulated studies of joint implant based on UHMWPE with low wear, which are aimed to tackle or minimize the

adverse effect related to wear and wear debris. These contributions provide fundamentals of chemistry and physics of UHMWPEs to help understand the clinical performances of UHMWPE based joint implants. Perspectives to next generation UHMWPE to meet the unmet challenges in clinical use are included.

Advances in Turbulence IV - F.T. Nieuwstadt 2012-12-06
The European Turbulence Conferences have been organized under the auspices of the European Mechanics Committee (Euromech) to provide a forum for discussion and exchange of recent and new results in the field of turbulence. The first conference was organized in Lyon in 1986 with 152 participants. The second and third conferences were held in Berlin (1988) and Stockholm (1990) with 165 and 172 participants respectively. The fourth was organized in Delft from 30 June to 3 July 1992 by the J.M. Burgers Centre. There were 214 participants from 22 countries. This steadily growing number of participants demonstrates both the success and need for this type of conference. The main topics of the Fourth European Turbulence Conference were: Dynamical Systems and Transition; Statistical Physics and Turbulence; Experiments and Novel Experimental Techniques; Particles and Bubbles in Turbulence; Simulation Methods; Coherent Structures; Turbulence Modelling and Compressibility Effects. In addition a special session was held on the subject of Cellular Automata. Each of the sessions was introduced with a survey lecture. The lecturers were: W. Eckhaus, A.J. Libchaber, L. Katgerman, F. Durst, M. Lesieur, B. Legras, D.G. Dritschel and P. Bradshaw. The contributions of the participants were subdivided into oral and poster presentations. In addition to the normal program, some Special Interest Groups of Ercoftac (European Research Community on Flow, Turbulence and Combustion) presented their research activities in the form of a poster.

Advanced Tire Mechanics - Yukio Nakajima 2019-04-03
This book highlights the mechanics of tire performance, offering detailed explanations of deriving basic

equations for the fundamental properties of tires, and discussing ways to improve tire performance using these equations. It also compares the theory with practical measurements. The book commences with composite mechanics, which is the fundamental theory for belt and carcass tires, and covers classical, modified and discrete lamination theory. It then addresses the theory of tire shape and spring properties and the mechanics of tread pattern contact properties, as well as the performance of various tires. This comprehensive book is a valuable resource for engineers involved in tire design and offers unique insights and examples of improvement of tire performances.

Thin Film Device Applications - Kasturi Chopra
2012-12-06

Two-dimensional materials created ab initio by the process of condensation of atoms, molecules, or ions, called thin films, have unique properties significantly different from the corresponding bulk materials as a result of their physical dimensions, geometry, nonequilibrium microstructure, and metallurgy. Further, these characteristic features of thin films can be drastically modified and tailored to obtain the desired and required physical characteristics. These features form the basis of development of a host of extraordinary active and passive thin film device applications in the last two decades. On the one extreme, these applications are in the submicron dimensions in such areas as very large scale integration (VLSI), Josephson junction quantum interference devices, magnetic bubbles, and integrated optics. On the other extreme, large-area thin films are being used as selective coatings for solar thermal conversion, solar cells for photovoltaic conversion, and protection and passivating layers. Indeed, one would be hard pressed to find many sophisticated modern optical and electronic devices which do not use thin films in one way or the other. With the impetus provided by industrial applications, the science and technology of thin films have undergone revolutionary development and even today continue to be recognized globally as

frontier areas of RID work. Major technical developments in any field of science and technology are invariably accompanied by an explosion of published literature in the form of scientific publications, reviews, and books. *Natural Language Processing Using Very Large Corpora* - S. Armstrong 2013-04-17

ABOUT THIS BOOK This book is intended for researchers who want to keep abreast of current developments in corpus-based natural language processing. It is not meant as an introduction to this field; for readers who need one, several entry-level texts are available, including those of (Church and Mercer, 1993; Charniak, 1993; Jelinek, 1997). This book captures the essence of a series of highly successful work shops held in the last few years. The response in 1993 to the initial Workshop on Very Large Corpora (Columbus, Ohio) was so enthusiastic that we were encouraged to make it an annual event. The following year, we staged the Second Workshop on Very Large Corpora in Kyoto. As a way of managing these annual workshops, we then decided to register a special interest group called SIGDAT with the Association for Computational Linguistics. The demand for international forums on corpus-based NLP has been expanding so rapidly that in 1995 SIGDAT was led to organize not only the Third Workshop on Very Large Corpora (Cambridge, Mass.) but also a complementary workshop entitled From Texts to Tags (Dublin). Obviously, the success of these workshops was in some measure a reflection of the growing popularity of corpus-based methods in the NLP community. But first and foremost, it was due to the fact that the work shops attracted so many high-quality papers.

Historical Dictionary of Ancient India - Kumkum Roy 2009
India's history and culture is ancient and dynamic, spanning back to the beginning of human civilization. Beginning with a mysterious culture along the Indus River and in farming communities in the southern lands of India, the history of India is punctuated by constant integration with migrating peoples and with the diverse cultures that surround the country. Placed in the center

of Asia, history in India is a crossroads of cultures from China to Europe, as well as the most significant Asian connection with the cultures of Africa. The Historical Dictionary of Ancient India provides information ranging from the earliest Paleolithic

cultures in the Indian subcontinent to 1000 CE. The ancient history of this country is related in this book through a chronology, an introductory essay, a bibliography, and hundreds of cross-referenced dictionary entries on rulers, bureaucrats, ancient societies, religion, gods, and philosophical ideas.